

	Application No.	Applicant(s)
Notice of Allewshills	10/629,786	YAMAMOTO ET AL.
Notice of Allowability	Examiner	Art Unit
	Tho G. Phan	2821
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>filing date of 7/30/03</u> .		
2. The allowed claim(s) is/are <u>1-32</u> .		
3. The drawings filed on 30 July 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/30/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	<u>_</u>	nent/Comment ent of Reasons for Allowance
of Biological Material	9. ☐ Other	on to adding the Allowance
o. Diological Material	o. 🗀 ould	
	THO PHAN	
	PRIMARY EXAMINER	

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DETAILED ACTION

Allowable Subject Matter

1. The following is a statement of reasons for the indication of allowable subject matter: Claims 1,15,29 and 30 are allowable over the art of record because the prior art does not teach a rectangular waveguide having one end short-circuited by a terminating conductor and the rectangular waveguide including a grounding conductor and one end of the antenna element being electrically connected with a position in the ceiling conductor, wherein the ceiling conductor includes a removed portion on the side of opened another end of the rectangular waveguide, whereby an electromagnetic wave of a radio signal fed to the feeding portion is radiated from the removed portion of the ceiling conductor and the opened another end of the rectangular waveguide, and in combination with the remaining claimed limitations.

Claim 10 is allowable over the art of record because the prior art does not teach a rectangular waveguide having one end and another end both of which are short-circuited by terminating conductors and the rectangular waveguide including a grounding conductor, at least one slit formed in the ceiling conductor in the widthwise direction of the rectangular waveguide, the slit being located in a position of which a distance to one end of the rectangular waveguide is substantially different from a distance to another end of the rectangular waveguide, and in combination with the remaining claimed limitations.

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Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Bobier, Yamamoto et al ('712), Woloszczuk, West et al, Bogner and Yamamoto et al ('618) are cited as of interested and illustrated a similar structure to waveguide antenna assembly.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho G. Phan whose telephone number is 571-272-1826. The examiner can normally be reached on (M-R), Monday-Thursday (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tho G. Phan

Primary Examiner

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